

Stormwater Utility Enabling Legislation
Lincoln's Watershed Management Program Requirements
December 10, 2002

Lincoln's stormwater system includes:

- City of approx. 79 square miles
- 60 miles of major stream channels
- Over 510 miles of storm pipes
- 675 square miles drainage area
- **** Numbers *don't* include:**
 - 1) Minor system components - numerous culverts and miles of smaller stream channels;
 - 2) Significant near-term growth areas and contributing watersheds.

Lincoln's watershed management program has two major components that would ***both*** be part of a stormwater utility if adopted: 1) Capital projects, 2) O&M

Capital improvements. Current funding: GO Bonds (every 2 years)

- Storm Drainage Improvement Projects. Current funding level ~\$6 mil every two years, or approx \$3 mil per year
- Master Plan (MP) Implementation projects. Current funding level: ~\$1 mil every two years, or approx \$500 K per year
 - Existing and future urban conditions
 - Capital projects contribute to meeting NPDES permit requirements
 - Stream stability
 - Flood Control
 - Floodplain land/easements acquisition
 - Water quality wetlands
 - Other structural BMP's
- Funding subject to vote of people
- Significant gap between funding and needs: Beal Slough MP identifies \$15 mil in needed improvements, South Basin MP identifies \$9 mil. Stevens Creek MP process is about to begin and will identify further capital projects.

O&M. Current funding: General Fund

- Current funding level is \$400 K/year
- Significant increased needs due to NPDES Permit

NPDES Permit Requirements:

- Nebraska Department of Environmental Quality (NDEQ) issued the City of Lincoln a National Pollutant Discharge Elimination System (NPDES) stormwater permit in September 2002. The permit is required for Lincoln to discharge stormwater runoff into 'waters of the state'.
- Permit requires Lincoln to devote a significant level of resources to develop and implement a range of programs and capital projects to be in compliance with regulations of the EPA stormwater program.
- Phase II of the NPDES requirements, effective March 2003, expand some of the program areas listed below, and will in particular require resources to be devoted to public education and involvement.
- Lincoln must implement the Storm Water Management Program (SWMP) that is embodied within the permit. There are four broad program area elements, with 21 program activities specified:

A. Residential and Commercial Runoff

1. O&M for storm drainage system
2. Comprehensive watershed planning/implementation
3. O&M for public streets
4. Flood management
5. Runoff management from municipal waste facilities
6. Fertilizer and pesticide control
7. Structural and non-structural Best Management Practices (BMP's)

B. Illicit Discharge Program

1. Prevention of illicit discharges into storm drain system
2. Field screening for illicit discharges
3. Investigation of illicit discharges
4. Prevention/containment of spills
5. Public reporting of illicit discharges
6. Used oil and toxic material education
7. Controls to limit seepage from sanitary sewers

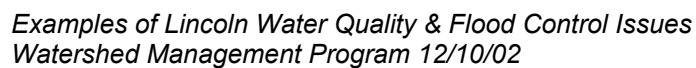
C. Industrial Facility Program

1. Inspection/enforcement of industrial facilities
2. Monitoring of industrial facilities

D. Construction Activity Program

1. Development of site planning procedures
2. Requirements for construction site BMP's
3. Inspection/enforcement of construction site activity
4. Construction site operators education
5. Adoption of standards to reflect Phase II requirements

R5E *R6E* *R7E* *R8E*





Storm

Drain

Water Quality Issue in Haymarket



Beal Slough Channel Degradation



Construction Site Erosion and Sedimentation



Downtown Lincoln Flooding in 1991